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नई दिल्ली, शनिवार, अगस्त 11, 1973 (श्रावण 20, 1895)

No. 32]

NEW DELHI, SATURDAY, AUGUST 11, 1973 (SRAVANA 20, 1895)

इस भाग में जिस पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

PART III—SECTION 2

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

Notifications and Notices issued by the Patent Office relating to Patents and Designs

THE PATENT OFFICE

Patents and Designs

Calcutta, the 11th August 1973

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

21st July 1973

- 1712/Cal/73. Council of Scientific and Industrial Research. Development of a process for the utilisation of corn stalk for making paper pulp.
- 1713/Cal/73. Council of Scientific and Industrial Research. Angle probes for ultrasonic flaw detectors.
- 1714/Cal/73. Abildgaard Laboratories, Inc. method of forming case books and cased books made thereby. [Divisional date 23rd July 1971].
- 1715/Cal/73. Universal Oil Products Company. Dehydrogenation method and multicomponent catalytic composite for use therein. [Addition to No. 128349].
- 1716/Cal/73. The Colonial Sugar Refining Company Limited. Biological products. (28th July 1972).
- 1717/Cal/73. Colgate-Palmolive-Company. A method of laundering soiled clothing with a phosphate-free biodegradable detergent composition. [Divisional date 1st September 1971]

23rd July 1973

- 1718/Cal/73. S. M. Berry. Automotive air injection pump.
- 1719/Cal/73. Pfizer Inc. A process for preparing 6- α -(amidino- and imido-ylamino-alkanoylamino)-aracylamino penicillanic acids. (27th December 1972).
- 1720/Cal/73. Ici Australia Limited and Commonwealth Scientific & Industrial Research Organization. Process.

187GI/73

24th July 1973

- 1721/Cal/73. Anil Kumar Biswas. Production of high purity copper by cementation on iron
- 1722/Cal/73. Chloride Lorival Limited (formerly known as Lorival Limited). Injection moulding apparatus. (25th July 1972).
- 1723/Cal/73. Aluminium Pechiney. Improvements in or relating to a rotary sealing packing for parts of machines such as shafts and bearings.
- 1724/Cal/73. A. Kempler. Mixer tap with independent flow controls.
- 1725/Cal/73. Societe Anonyme des Etablissements Roure-Bertrand Fils & Justin Dupont. Hydroxydihydro-citronellal synthesis.
- 1726/Cal/73. H. Hansson. An airline passenger building.

25th July 1973

- 1727/Cal/73. Hickson & Welch Limited. Chemical compounds. (26th July 1972).
- 1728/Cal/73. Imperial Chemical Industries Limited. Morpholine derivatives.
- 1729/Cal/73. Imperial Chemical Industries Limited. Morpholine derivatives.
- 1730/Cal/73. Boorke Bond Liebig Limited. Improvements in or relating to meat. (27th July 1972).
- 1731/Cal/73. Mitsui Toatsu Chemicals, Incorporated. Coloring of the organic materials with naphthacene-quinone derivatives.
- 1732/Cal/73. Kanegafuchi Chemical Industries Co., Ltd. Process for production of l-lysine by fermentation.
- 1733/Cal/73. Rheinstahl AG. Process for teeming starting material for rolling mills and installations for applying the process.
- 1734/Cal/73. H. Oetiker. Pipe connection.

1735/Cal/73 S R M Hydromekanik Aktiebolag Improvement in and relating to hydromechanical transmissions

1736/Cal/73 Prerovske Strojny Narodni Podnik Apparatus for preheating granular materials

1737 Cal/73 Nordmark-Werke Gesellschaft mit beschränkter Haftung Process for producing new nitrofurane derivatives

1738/Cal/73 General Electric Company Diamond tools for machining

1739/Cal/73 Burroughs Corporation Drive signal storage and direct drive in display systems

1740/Cal/73 Burroughs Corporation Gas-filled display device having mercury shield

26th July 1973

1741/Cal/73 Agfa-Gavaert naamloze vennootschap Recovery of polyester film scrap (27th July 1972)

1742/Cal/73 Marathon Oil Company Method for making and slurrying wax beads

1743/Cal/73 California Pellet Mill Company Method of restructuring rice

1744/Cal/73 The Regents of the University of California Rubber elastomeric and plastomeric materials containing amorphous carbonaceous silica [Addition to No 751/Cal/73]

1745/Cal/73 Dipankar Adhya Autoleveller for jute sliver

1746/Cal/73 Deutsche Colg Und Silber Scheideanstalt Vor-mals Roessler New trialkoxybenzoyl peptides

1747/Cal/73 Vsesojuzny Nauchno-Issledovatel'skiy Proektirovskiy Tekhnologicheskoy Institut Elektrotrochicheskogo Oborudovaniya (Vniit) Device for electrolytic boring of articles

1748/Cal/73 Thyssen Niederrhein Ag Hutten- Und Walzwerke Installation for the reduction of iron ores by the method of direct reduction

1749/Cal/73 Moskovsky Ordena Lenina Energeticheskoy Institut Electrochemical power unit and method for producing same

APPLICATION FOR PATENTS FILED AT PATENT OFFICE (BOMBAY BRANCH)

16th July 1973

234/Bom/73 M M Vyas An improved chlorinator

235/Bom/73 Bhabha Atomic Research Centre, Trombay-85 Improved controlled variable time delay circuit

236 Bom/73 Bhabha Atomic Research Centre, Trombay, Bombay-85 Improved oscillator sensitivity measuring gear

237/Bom/73 M Y Umerbeg, Lock for automobile

238/Bom/73 K B Bhatia C/o Blue Steel Engineers Private Limited Improvements in or relating to screw drivers

239/Bom/73 Everest Packaging Corporation Self sticking carrying handles and the like

240/Bom/73 Vasant Engineering Ltd Hydraulic transformer for liquids and like

17th July 1973

241/Bom/73 The Textile Appliances & Instruments Co Private Limited and The Textile and Allied Industries Research Organisation Means for varying or controlling the speed of a rotating body

242/Bom/73 F Stahlecker and H Stahlecker Apparatus for removing impurities from fibres

243/Bom/73 Rodio Foundation Engineering Ltd and Hazarat & Co Improved process for building coffer dams with interlocking piles in the construction of underground structures e.g. in marine works

18th July 1973

244/Bom/73 P K Kulkarni Improvements in or relating to prevention of marine growth on ship hulls

245/Bom/73 Hindustan Lever Limited Toothpastes (21st July 1972)

246/Bom/73 Hindustan Lever Limited Toothpastes (21st July 1972)

247/Bom/73 J C Patni Improvements in a sterilizable dropper

19th July 1973

248/Bom/73 The Bombay Textile Research Association A novel printing recipe for obtaining seer-sucker effects on 100 per cent cotton fabrics

21st July 1973

249/Bom/73 K R Gajria Gauging instrument for measuring the internal diameter of holes

APPLICATION FOR PATENTS FILED AT PATENT OFFICE (MADRAS BRANCH)

25th July 1973

103/Mas/73 M N Rama Rao and Company Novel spring shoe tree

ALTERATION OF DATE

113973 Ante dated to 1st April 1965

135412 (407/72) Ante dated to 16th February 1971

135413 (408/72) Ante-dated to 16th February 1971.

135414 (191/Cal/73) Ante dated to 16th March 1971

135418 (1292/Cal/73) Ante-dated to 6th September 1971

COMPLETE SPECIFICATIONS ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15 of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules 1972.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot 8 Kiran Sankar Roy Road Calcutta, in due course. The price of each specification is Rs 2 (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 32F3a+3d

78502

PROCESS FOR PREPARING STEROID SUBSTANCES

HERCHEL SMITH OF 500 CHESTNUT LANE, WAYNE DELAWARE COUNTY PENNSYLVANIA, USA FORMERLY OF 1 COURTTLEIGH, ST JOHN'S ROAD BUXTON DERBYSHIRE ENGLAND

Application No 78502 filed September 18, 1961

Convention date September 22, 1960 (32670/60) U K

14 Claims

A process for preparing a steroid compound of the structure (I) (see drawings) where R is an alkyl group of the kind whose linkage to the oxygen atom is stable to the action of an alkali metal in liquid ammonia. R¹ is an alkyl group having at least 2 carbon atoms, X is a hydroxymethylene

group, a carbonyl group, or a derivative group convertible by hydrolysis into a hydroxymethylene group or carbonyl group such as an esterified hydroxymethylene or ketalised carbonyl group and the substituents at the tertiary carbon atoms in ring C are in the trans-anti-trans configuration, in which a compound of structure (II) (see drawings), where ring C is saturated or contains an ethylenic bond terminating at the 9 position the C : D ring junction is in the *trans* configuration, the hydrogen atom at the 8-position where present is *anti* to the hydrogen atom H at the 14-position, and the hydrogen atom at the 9-position where present is *trans* to the hydrogen atom at the 8-position, is submitted to a Birch reduction process with addition of one hydrogen atom at each of the carbon atoms at the 1- and 4- positions and saturation of any ethylenic bond in ring C to give a trans-anti-trans arrangement of the substituents at the tertiary carbon atoms in ring C; and where the reduction product is a compound where X is a hydroxymethylene group, and a compound where X is a carbonyl group is required, the latter is formed by Oppenauer oxidation without re-aromatization of ring A.

CLASS 32F1+2b. 88425

PROCESS FOR THE PREPARATION OF DIAZABICYCLOCTANES.

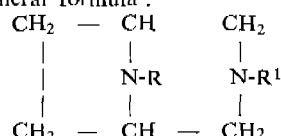
LEPETIT S.P.A., OF 10, VIA ROBERTO LEPETIT, MILANO, ITALY.

Application No. 88425 filed June 14, 1963.

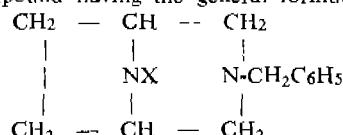
Convention date June 15, 1962 (23157/62) U.K.

5 Claims—No drawings.

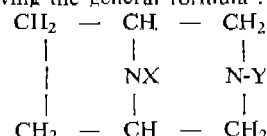
A process for preparing a 3, 8-diazabicyclo [3, 2, 1]-octane having the general formula :



wherein one of the symbols R R' represents an acyl radical and the other represents hydrogen or an alkyl, aryl, aralkyl or aralkenyl radical or aralkenyl with nitro, alkoxy, chloro or alkyl substituents or a cycloalkyl lower-alkyl radical wherein the lower alkyl has 1-8 carbon atoms, which comprises subjecting a compound having the general formula.



wherein X is an acyl radical to debenzylate by hydrogenation under pressure in the presence of a hydrogenation catalyst, optionally subjecting the 8-acyl-3, 8-diazabicyclo-[3, 2, 1]-octane so obtained to rearrangement by the action of heat or in the presence of a catalyst to form the corresponding 3-acyl derivative and optionally treating the obtained 2- or 8-acyl compound having the general formula :



where one of the symbols X and Y is hydrogen and the other is an acyl group with an alkylating agent having the general formula RZ wherein Z is halogen and R represents an alkyl, aryl, aralkyl, or aralkenyl radical or aralkenyl with nitro, alkoxy, chloro or alkyl substituents or a cycloalkyl lower alkyl radical wherein lower-alkyl is as hereinbefore defined.

CLASS 32C & 55E-4. 90071.

PROCESS FOR THE MANUFACTURE OF NOVEL ANTIBIOTICS.

SCHERICO LTD WINKELRIEDSTR. 56, FORMERLY OF FAI KENGASSE 2, UCERNE, SWITZERLAND.

Application No. 90071 filed September 28, 1963.

Convention date October 16, 1962 (39130/62) U.K.

13 Claims.

A process for the production of a new antibiotic which comprises incubating a micro-organism of the species *Micro-*

monospora purpurea, *Micromonospora echinospora*, *Micromonospora carbonacea* or *Micromonospora halophytica*, or an antibiotic-producing mutant or variant thereof in usual biological manner, until at least one compound having substantial antibiotic activity is produced, and isolating at least one of the antibiotic compounds thus produced.

CLASS 32F2b & 55E2+4

98787.

PROCESS FOR THE PREPARATION OF MANNICH BASES OF RIFAMYCIN SV. LEPETIT S.P.A., OF 8, VIA ROBERTO LEPETIT, MILANO, ITALY.

Application No. 98787 filed April 1, 1965.

Convention date April 2, 1964 (13653) U.K.

2 Claims.

A process for preparing an aminomethyl derivative of rifamycin SV, which comprises refluxing rifamycin S in an inert organic solvent with at least two equimolecular amounts of formaldehyde and an excess over an equimolecular amount of a secondary nitrogen base selected from an amine of the formula shown in Fig. 3 of the accompanying drawings, wherein R is a member selected from the group consisting of hydrogen and lower alkyl, R' is a member of the class consisting of lower alkyl, hydroxy-lower alkyl, carboxy-lower alkyl and cycloalkyl groups and a heterocyclic compound of the formula shown in Fig. 4 of the drawings, wherein X is a member of the class consisting of methylene, ethylene, a group -CH₂O- and a group -CH₂NH-, R'' and R''' are members of the class consisting of hydrogen, lower alkyl, hydroxy and carboxy groups and contacting the obtained aminomethyl derivative of rifamycin S with an aqueous solution of ascorbic acid.

CLASS 32F3C.

104255.

A PROCESS FOR PREPARING ANDROSTA-1, 4-DIENE-3, 17-DIONE.

RICHTER GEDEON VEGYESZETI GYAR R. T., OF 63 CSERKESZ UTCA, BUDAPEST X, HUNGARY.

Application No. 104255 filed March 9, 1966.

3 Claims—No drawings.

A process for producing androsta-1, 4-diene-3, 17-dione by microbiological oxidation, in which cholest-4-one is treated under aerobic fermentation conditions, in the presence of chinoline derivatives, with the cells of *Mycobacterium smegmatis* developed on a halosynthetic medium which contains a member selected from the group consisting of sterilized polyoxyethylene sorbitane monooleate and polyoxyethylene sorbitane dioleate.

CLASS 32F2b.

111500

METHOD FOR THE PREPARATION OF SUBSTITUTED PYRAZOLES DERIVATIVES.

THE WELLCOME FOUNDATION LIMITED OF 183-193, EUSTON ROAD, LONDON, N.W. 1., ENGLAND.

Application No. 111500 filed July 13, 1967

Convention date July 14, 1966 (31690/66) U.K.

7 Claims.

A method of preparing 3-amino-4-carboxamindopyrazole of formula (II), as shown in the accompanying drawings, or a salt thereof, which comprises the reaction of 3-amino-2-cyanoacrylamide of formula (VII) with hydrazine of formula (VIII)

CLASS 32F3d.

113973.

PROCESS FOR THE PREPARATION OF N-OXIDES OF AMINOMETHYL DERIVATIVES OF RIFAMYCIN SV.

LEPETIT S.P.A., OF 8, VIA ROBERTO LEPETIT, MILANO, ITALY.

Application No. 113973 filed January 8, 1968.

Division of Application No. 98787 dated April 1, 1965.

2 Claims.

A process for preparing the N-oxides of aminomethyl derivatives of rifamycin SV, which comprises subjecting an

aminomethyl derivative of rifamycin SV of the formula shown in Fig. 3 of the accompanying drawing, wherein B is a radical selected from the groups of the formulae shown in Figs. 4 and 5 of the drawings, in which R is selected from hydrogen and lower alkyl, R' is selected from lower alkyl, hydroxy lower-alkyl, carboxy lower-alkyl and cycloalkyls, X represents methylene, ethylene, a group $-\text{CH}_2\text{O}-$ and a group $-\text{CH}_2\text{NH}-$, R'' and R''' represent hydrogen, lower alkyl, hydroxy and carboxy groups, to oxidation with an aqueous hydrogen peroxide solution at room temperature in the presence of a tertiary nitrogen base.

CLASS 32F1+2b.

116153.

PROCESS FOR THE PREPARATION OF 1, 3 (2H, 4H)-DIOXISOQUINOLINE-4-CARBOXAMIDES.

PFIZER INC., FORMERLY KNOWN AS CHAS. PRIZER & CO., INC., OF 235 EAST 42ND STREET, NEW YORK 17, STATE OF NEW YORK, U.S.A.

Application No. 116153 filed May 30, 1968.

2 Claims.

A process for preparing compounds of the formula IA of the accompanying drawings, wherein:

R₁ is hydrogen; alkyl containing up to 6 carbon atoms; alkenyl containing up to 6 carbon atoms; cycloalkyl containing up to 6 carbon atoms; methoxy; hydroxy; Benzyloxy; propargyl; 2-furyl; furfuryl; 2-tetrahydrofuryl; tetra-hydrofurfuryl; phenyl; substituted phenyl, said substituent being fluorine, chlorine, bromine, alkoxy containing up to 2 carbon atoms, alkyl containing up to 3 carbon atoms, trifluoromethyl, nitro, amino, methylsulfonyl, trifluoromethyl-sulfonyl, dimethylsulfonamido, acetamido or hydroxy; benzyl; substituted benzyl, said substituent being fluorine, chlorine, bromine, alkoxy containing up to 2 carbon atoms, alkyl containing up to 3 carbon atoms, trifluoromethyl, nitro, amino, methylsulfonyl trifluoromethylsulfonyl, dimethylsulfonamido, acetamido or hydroxy;

R₂ is a group of the formula IV, wherein,

R₂ is hydrogen; alkyl containing up to 6 carbon atoms; alkenyl containing up to 6 carbon atoms; alkynyl containing from 3 up to 6 carbon atoms; cycloalkyl containing up to 6 carbon atoms; carbalkoxyalkyl containing up to 5 carbon atoms; polyfluoroalkyl containing up to 3 carbon atoms; acyl containing up to 4 carbon atoms; benzoyl; tetrahydrofurfuryl; adamantyl; pyridyl; phenyl containing up to 2 substituents which are the same or different and are fluorine, chlorine, bromine, alkoxy containing up to 2 carbon atoms, alkyl containing up to 3 carbon atoms, acetyl, trifluoromethyl, nitro, amino, methylsulfonyl, trifluoro methylsulfonyl, dimethylsulfonamido, acetamido or hydroxy; naphthyl, substituted naphthyl, said substituents being fluorine, chlorine, bromine, alkoxy containing up to 2 carbon atoms, alkyl containing up to 3 carbon atoms, acetyl, trifluoromethyl, nitro, amino, methylsulfonyl, trifluoro-methylsulfonyl, dimethylsulfonamido, acetamido or hydroxy; aralkyl containing up to 8 carbon atoms, said substituents being fluorine, chlorine, bromine alkoxy containing up to 2 carbon atoms, alkyl containing up to 3 carbon atoms, acetyl, trifluoromethyl, nitro, amino, methylsulfonyl, trifluoro-methylsulfonyl, dimethylsulfonamido acetamido or hydroxy;

R₃ is the residue of a fused carbocyclic ring system attached at positions 5 and 6 wherein, if said fused ring is benzo, then it may contain groups X₁ and X₂; wherein X₁ and X₂ are the same or different and are hydrogen, fluorine, chlorine, bromine, alkoxy containing up to 2 carbon atoms, alkyl containing up to 3 carbon atoms, acetyl, trifluoromethyl, nitro, amino, methylsulfonyl, trifluoro-methylsulfonyl, dimethylsulfonamido, acetamido or hydroxy; which comprises reacting a compound of the formula IC, with an alkali metal cyanate or an alkyl or aryl isocyanate of the formula R₃NCO to form the compound of Formula IA wherein R₃ is a group of the formula IV.

CLASS 21A.

131679.

AN APPARATUS FOR MATCHING AND FEEDING STITCHABLE COMPONENTS OF A SHOE QUARTER TO A SEWING MACHINE.

BATA SHOE FINANCIAL CORPORATION OF CANADA LIMITED, OF BATAWA, ONTARIO, CANADA.

Application No. 131679 filed June 11, 1971.

Convention date June 12, 1970 (085378) Canada.

10 Claims.

An apparatus for matching and feeding stitchable components of a shoe quarter to a sewing machine where the components are stitched together to form the shoe quarter, said apparatus comprising:

- (a) stacking means for retaining separate stacks of individual stitchable components;
- (b) separating devices for separating said individual components, one at a time, from each said stack;
- (c) a monitor system for making a colour comparison of said components after separation from said stacks;
- (d) gauge means for aligning said components;
- (e) conveyor means for carrying said components from said stacking means to said monitor system and to said gauge means;
- (f) means for transferring said components from said gauge means to said sewing machine; and
- (g) reject means for rejecting said components if a faulty comparison of said components is made in said monitor system.

CLASS 32-A.

131734

PROCESS FOR PREPARING AZO-DYES SOLUBLE IN ORGANIC SOLVENTS.

AZIENDE COLORI NAZIONALI AFFINI ACNA S.P.A., OF 1, LARGO G. DONEGANI, MILAN, ITALY.

Application No. 131734 filed June 15, 1971.

2 Claims.

A process for preparing azodyes soluble in organic solvents having the general formula, shown in the accompanying drawings wherein:

$$m=1-3$$

$$n=1, 2$$

$$X=H, NO_2$$

$$Y=H, Cl, NO_2, \text{ lower alkyl or lower alkoxy (1-3 carbon atoms)}$$

$$Z \text{ and } Z'=H, CC, \text{ lower alkyl or alkoxy (1-3 carbon atoms) lower acylamine}$$

$$R_1=\text{alkyl, a radical of formula shown in Fig. 1 of the drawing}$$

$$R_2=H, \text{ lower alkyl having from 1 to 3 carbon atoms}$$

R₃=an alkyl having from 1 to 18 carbon atoms, cycloalkyl, the aromatic nuclei A, B and C may have further non-hydro dissolving substituents, characterized in that an intermediate dye having the general formula II shown in the drawings is reacted, in a water-free medium is herein described with a vinyl ether of the general formula III, shown in the drawings (wherein n, m, A, B, C, X, Z', R₁, R₂ and R₃ have the same meaning as above specified) in the presence of an acid catalyst selected from the group consisting of BF₃, AlCl₃, ZnCl₂, and HCl and at a temperature comprised between the room temperature and 100°C, and preferably between 50 and 70, by finally neutralizing the reaction environment with a water-free inorganic and/or organic alkaline substance.

CLASS 143 D-5.

ASSEMBLY FOR TUCKING AND FOLDING.

SCANDIA PACKING MACHINERY COMPANY, OF
500 BELLEVILLE TURNPIKE, NORTH ARLINGTON,
NEW JERSEY 07032 U.S.A.

Application No. 131773 filed June 17, 1971

8 Claims.

In a stationary tucking and folding mechanism including a tucker blade means and at least a first folder member forming a wall structure with a slot located between the tucker blade means and the folder member, said mechanism being mountable along a path travelled by an article having a wrapper extension section projecting outwardly from the edges and along at least two contiguous sides thereof, said mechanism being effective to form a tuck portion along a first edge of the article and then bend an overfold portion thereover and against a side intersecting said two contiguous sides as the article moves along the path, the combination comprising:

- (a) a straight edge section located on the tucker blade means and in overlapping relationship with respect to the first folder member,
- (b) said slot having a configuration to receive the overfold portion of the extension section and cause the overfold portion to bend inwardly with respect to the article over the tuck portion,
- (c) said straight edge section being disposed at a height along said path to be contiguous to a second edge of the article to support the tuck portion beneath the overfold portion at the crease line to prevent the tuck portion from changing position therebeneath while the first folder member acts to crease the overfold portion along said second edge of an article.

CLASS 172A.

132054.

IMPROVEMENTS IN OR RELATING TO BOBBINS FOR JUTE SPINNING MACHINES.

BIRAJ KRISHNA BASU, C/O. N. K. DUTTA, ESOR.,
32 COLLEGE STREET, CALCUTTA, WEST BENGAL,
INDIA.

Application No. 132054 filed July 9, 1971

4 Claims.

A bobbin for use in jute spinning machines comprising the barrel or shank, the upper flange and the base the shank is made of high density polythene with an insert tube of aluminium, the base in which are formed the engagement opening for engaging the pins on the bobbin carrier is also made of high density polythene, the aluminium tube being swagged or bent outwardly over the face of the upper flange and also swagged at its lower end to be located in a recess around the said tube formed at the underside of the base of the bobbin characterised in that the upper flange is made of laminated fibre discs reinforced with metal insert

CLASS 21B.

132062.

IMPROVEMENTS IN OR RELATING TO METHODS OF MANUFACTURING FOOTWEAR.

HENRY ARNOLD ANDERSSON, OF OSTRA ESPLANADEN 5C. S-343 OO ALMHULT, SWEDEN.

Application No. 132062 filed July 9, 1971.

5 Claims.

A method of forming footwear such as shoes, boots, sandals and slippers and having an upper and sole, shank and heel members, comprising the steps of forming the upper with a lower edge portion having a flange extending obliquely inwardly in relation to said edge portion, placing the upper on a last means, positioning said upper and last means as a unit on the top of a mold means having a bottom part and a mold cavity which is open at the upper side of said mold means, and arranging the upper such that said flange and said edge portion at the lower end thereof extend into said

mold cavity, covering the mold cavity at the top by said unit to close said cavity and defining interconnected cavity portions for forming said sole shank and heel members from a molding plastic composition, molding said members as portions of an integral piece under application of pressure such that said flange is embedded by a molding plastic composition used to form said members into one integral sole piece of plastic material for interconnecting the upper and said integral piece, and moving said mold means and said unit apart and withdrawing the last means to permit removing the finished shoe.

CLASS 24D-4.

132111.

IMPROVEMENTS IN OR RELATING TO LOCK ACTUATORS FOR VEHICLES WHEEL BRAKES.

GIRLING LIMITED, OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, ENGLAND.

Application No. 132111 filed July 14, 1971.

Convention date July 21, 1970 (35246/70) U.K.

10 Claims.

A lock actuator for a vehicle wheel brake, including an adjustable length strut which is normally free, in use, to extend and contract to follow up movements of a brake applying member, friction clutch means selectively operable to lock the strut in an extended condition, resilient means acting on the clutch means in a sense to effect disengagement thereof and a fluid pressure actuated motor for effecting engagement of the clutch.

CLASS 20A & 79.

132218.

AN UNCASED BOOK AND A METHOD OF FORMING SUCH BOOK.

ABILDGAARD LABORATORIES, INC. OF 857 MAUDE AVENUE, MOUNTAIN VIEW, CALIFORNIA 94040, U.S.A.

Application No. 132218 filed July 23, 1971.

5 Claims.

An uncased book comprising a plurality of sheets, and end leaf for at least one end of said uncased book, binding means for binding said sheets and end leaf together located adjacent the inside edge of said book, pressure-sensitive material on at least a major portion of the outside surface of said end leaf, and release paper covering said pressure-sensitive material.

CLASS 24D.

132383.

FLUID PRESSURE OPERATED BRAKING DEVICE FOR VEHICLES INCORPORATING INTERNAL SHOE-DRUM BRAKES.

GIRLING LIMITED, OF KINGS ROAD, TYSELEY, BIRMINGHAM 11, ENGLAND.

Application No. 132383 filed August 5, 1971.

Convention date August 8, 1970 (38310/70) U.K.

14 Claims.

A fluid-pressure-operated braking device for vehicles incorporating internal shoe-drum brakes in which the brake shoes are separated at one or each end to apply the brake by a wedge actuated by two pistons arranged in tandem in a cylinder and individually acted upon by pressure fluid derived from two separate sources under manual control.

CLASS 39I & 70B+C4.

132589

PROCESS FOR THE PREPARATION OF CARBENE RUBBER ADDUCT.

CHIFF SCIENTIST RESEARCH & DEVELOPMENT ORGANISATION, MINISTRY OF DEFENCE, GOVERNMENT OF INDIA, NEW DELHI (INDIA).

Application No. 132396 filed August 5, 1971.

7 Claims—No. Drawings

Process for the preparation of carbene rubber adducts from natural rubber or synthetic rubber polymer which com-

prises generating in situ dichlorocarbenes or related carbenes such as dibromocarbene, difluorocarbene, bromochlorocarbene, chlorofluorocarbene and bromofluorocarbenes by action of an aqueous solution of caustic alkalis with chloroform or precursors thereof such as bromoform, bromodifluoromethane, chlorodifluoromethane, in suspension/solution of natural rubber or synthetic rubber or rubber polymers in an organic phase, such as aromatic hydrocarbons in presence of catalytic amounts of carbene transfer agent.

CLASS 66D4 & 113-I.

132557.

BULB HOLDERS.

BUTLERS LIMITED, OF GRANGE ROAD, BIRMINGHAM, ENGLAND.

Application No. 132557 filed August 18, 1971.

Convention date August 25, 1970 (40861/70) U.K.

7 Claims.

A bulb holder for electric lamps including a hollow conductive sleeve having an internal bulb engaging surface, a fulcrum part at one end of the sleeve and a latch part also at said one end of the sleeve, the latch part being spaced around the periphery of the said sleeve from the fulcrum part, an insulating contact plate and a resilient contact member carried by said plate, said plate engaging said fulcrum part so that the plate is pivotable about said fulcrum part relative to said sleeve and there being a latch member engageable with said latch part to retain said plate in an operative position relative to the sleeve, said contact member being stressed against a terminal of a bulb in use to urge said bulb into engagement with said bulb engaging surface.

CLASS 32-F-C.

132972.

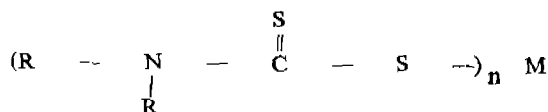
METHOD OF PREPARING METAL DITHIOCARBAMATE.

UNIROYAL, INC. OF 1230 AVENUE OF THE AMERICAS, NEW YORK 10020, IN THE COUNTY AND STATE OF NEW YORK, U.S.A.

Application No. 132572 filed August 19, 1971.

3 Claims—No drawings.

A method of preparing metal dithiocarbamate of the formula



where M is a metal, n is a number equal to the valence of the metal R is a linear, branched or alpha-methyl substituted alkyl radical of from 7 to 30 carbon atoms, and R' is a secondary alkyl group or an alkyl substituted or unsubstituted cycloalkyl radical of from 3 to 9 carbon atoms, which comprises mixing a water-alcohol solution of the dithiocarbamate of the formula quoted above, wherein M is sodium, and R and R' are as defined above, with a water-soluble metal salt of a metal which forms an insoluble salt with the dithiocarbamate moiety represented above, characterized in that the mixture is subjected to high speed agitation whereby an insoluble metal dithiocarbamate of the aforesaid formula precipitates in finely divided solid form substantially free of occluded impurities, and thereafter recovering said precipitate from the mixture.

CLASS 39L & 70B+C4.

132589

METHOD OF PREPARING MANGANESE DIOXIDE BY ELECTROLYSIS.

KERR-MCGEE CHEMICAL CORP., AT KEER-MCGEE BUILDING, OKLAHOMA CITY, OKLAHOMA, U.S.A.

Application No. 132589 filed August 20, 1971.

6 Claims—No drawings.

A method of preparing manganese dioxide by the electrolysis of an aqueous solution containing sulfuric acid and manganese sulfate, wherein the improvement comprises using

as an anode expanded metal selected from the group consisting of titanium, tantalum and zirconium.

CLASS 150F+G & 181.

132640

ROTARY JOINT.

SHERRITT GORDON MINES LIMITED, AT 25 KING STREET WEST, TORONTO 1, ONTARIO, CANADA.

Application No. 132640 filed August 24, 1971.

Convention date September 21, 1970 (093,580) Canada.

6 Claims.

Rotary joint for the introduction and withdrawal of fluid into and from outer and inner rotating pipes, said inner pipe positioned within said outer pipe, said joint including a housing having a wall with a cylindrical inner surface defining an annular chamber with the outer wall of the inner pipe within which said pipes are rotatably accommodated, said outer pipe terminating at an open end disposed within said opening and in liquid communication with a conduit which extends outwardly and through the wall of said housing, said inner pipe extending beyond the end of said outer pipe and terminating at an attenuated portion in communication with a conduit for the flow of fluid therethrough: first and second spaced apart annular packing glands extending inwardly from the inner surface of said housing into said opening, said first gland being disposed about and adjacent to said outer pipe and said second gland being disposed about and adjacent to said inner pipe beyond the end of said outer pipe; means for applying a selectively variable compressive force to said first gland to cause variable radial expansion thereof into sealing contact with said outer pipe and the inner surface of said housing; and means for applying a selectively variable compressive force to said second gland to cause variable radial expansion thereof into sealing contact with said inner pipe and the inner surface of said housing so that said second gland serves as a barrier to the flow of fluid between the open ends of said inner and outer pipes.

CLASS 53B.

132650.

CONTIGUOUSLY STAMPED BRAKE ARM FOR BICYCLE HUBS AND ITS METHOD OF PRODUCTION.

FICHTEL & SACHS A.G., OF ERNST-SACHE-STRASSE 62, 872 SCHWEINFURT AM MAIN, WEST GERMANY.

Application No. 132650 filed August 24, 1971.

14 Claims.

A brake arm or level for bicycle hubs for bracing the braking torque of the arm cone of the bicycle hub on the bicycle frame, which arm has at one end a bore through which the hub spindle is passed and at the other end an aperture for accommodating the binding or retaining clip screw, the hub spindle end of the brake arm being provided for application against the arm cone, characterized in that the brake arm outline on the upper edge at least over a large part of its length corresponds to the outline on the lower edge in the same direction, but offset in longitudinal direction.

CLASS 158E 2+3.

132680.

VEHICLE SUSPENSIONS.

DUNLOP HOLDINGS LIMITED FORMERLY KNOWN AS THE DUNLOP COMPANY LIMITED OF DUNLOP HOUSE, RYDER STREET, ST. JAMES'S LONDON S.W.1, ENGLAND.

Application No. 132680 filed August 26, 1971.

Convention date August 27, 1970 (41183/70) U.K.

6 Claims.

A railway vehicle bogie comprising two axle sets running in axle boxes mounted at the ends of substantially rigid side members, suspension means comprising chevron type rubber springs loaded in shear and compression between the side frames and a transverse substantially rigid bolster member, further spring means comprising rubber spring side bearers between each end of the bolster and the vehicle body, and pivot control means comprising two axially-aligned precompressed rubber springs mounted along the longitudinal centre

line of the vehicle body between the bolster and the body.

CLASS 148L. 132681.

PROCESS FOR INCREASING RADIATION SENSITIVITY OF PHOTOGRAPHIC SILVER HALIDE EMULSION LAYER.

EASTMAN KODAK COMPANY, OF 343 STATE STREET, ROCHESTER, NEW YORK, 14650, U.S.A.

Application No. 132681 filed August 26, 1971.

11 Claims.—No drawings.

A method of increasing the radiation-sensitivity of photographic silver halide emulsion layer on a support which comprises the steps:

- (1) reducing the amount and/or proportion of air in the atmosphere surrounding the layer,
- (2) subjecting the layer to gaseous hydrogen,
- (3) maintaining the layer in an atmosphere comprising a major proportion of hydrogen at a pressure of at least 10-7 torr., at a temperature of 0-100°C for a time for from 30 seconds to 16 hours and, thereafter,
- (4) removing the layer from the hydrogen atmosphere.

CLASS 206E. 132778.

METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE.

N. V. PHILIPS GLOEILAMPENFABRIEKEN, EMMASINGEL 29, EINDHOVEN (HOLLAND).

Application No. 132778 filed September 4, 1971.

11 Claims.

A method of manufacturing a semiconductor device in which a low-resistance ohmic contact is provided on a part of a semiconductor body which mainly consists of an A^{III}B^V compound or a mixed crystal thereof of the one conductivity type by providing on a surface of the semiconductor body a doping layer comprising a metal and a doping material which causes the one conductivity type in the semiconductor body and by heating the body and the layer at a temperature at which the doping layer and the semiconductor body alloy, the assembly being then cooled and doped semiconductor material being deposited on the semiconductor body, characterized in that, after cooling, the doping layer is removed and a metallic contact layer is provided on the doped semiconductor material.

CLASS 206E. 132778.

METHOD OF MANUFACTURING A SEMICONDUCTOR DEVICE.

N. V. PHILIPS GLOEILAMPENFABRIEKEN, EMMASINGEL 29, EINDHOVEN (HOLLAND).

Application No. 132779 filed September 4, 1971.

8 Claims.

A method of manufacturing a semiconductor device, in which a low-resistance ohmic contact is provided on a part of a semiconductor body of the *n*-type which mainly consists of an A^{III}B^V compound or a mixed crystal thereof, by providing on a surface on the semiconductor body a doping layer comprising a metal and germanium which in the semiconductor body causes *n*-type conductivity and heating the semiconductor body and the doping layer at a temperature at which the doping layer and the semiconductor body alloy, the assembly being then cooled and doped semiconductor material being deposited on the semiconductor body, characterized in that a doping layer is used which comprises a donor for germanium,

CLASS 32F, 3d & 40B. 132783.

PROCESS FOR THE PREPARATION OF CYCLOHEXANONE BY SELECTIVE VAPOUR PHASE HYDROGENATION OF PHENOL.

BAYER AKTIENGESSELLSCHAFT, FORMERLY KNOWN AS FARBENFABRIKEN BAYER AKTIENGESELLSCHAFT, OF LEVERKUSEN, FEDERAL REPUBLIC OF GERMANY.

Application No. 132783 filed September 4, 1971.

7 Claims.—No drawings.

A process for the preparation of cyclohexanone by selective catalytic hydrogenation of phenol in the vapour phase at normal pressure or slightly elevated or slightly reduced pressure, wherein the catalyst, which contains palladium, is brought to a reaction temperature of 100°C to 350°C and a charge of 0.1 to 10 kg of phenol per litre of catalyst per hour is added to the reaction mixture, characterised in that the carriers used for the palladium catalyst are alumina spinels as hereinbefore described.

CLASS 32E & 139A. 132804.

BLACK-PIGMENTED HALOGEN-CONTAINING VINYL RESIN COMPOSITION.

CABOT CORPORATION, 125 HIGH STREET, BOSTON, MASSACHUSETTS, U.S.A.

Application No. 132804 filed September 6, 1971.

9 Claims.—No drawings.

A black-pigmented halogen-containing vinyl resin composition comprising a halogen-containing vinyl resin and between about 0.1 and about 5 weight percent thereof of an oil furnace carbon black having a BET-N₂ surface area of less than about 350m²/gram a Nigrometer scale value of less than about 81.5, a dispersion rating of greater than about 80 percent and a dibutyl phthalate oil absorption value of between about 40 and about 150 lbs/100 lbs.

CLASS 32-F-2d. 133077.

A PROCESS FOR THE PREPARATION OF AN α -6-DEOXYTETRACYCLINE.

RACHELLE LABORATORIES ITALIA S. P.A., OF VIA DEL MULINO 5, 20094 BUCCINASCO, MILAN, ITALY.

Application No. 133077 filed October 1, 1971.

10 Claims.—No drawings.

A process for preparation of an α -6-deoxy tetracycline from a mixture of the α - and β -epimers of 6-deoxytetracycline sulfosalicylate which comprises neutralizing the α and β -epimers with at least two equivalents of a base such as herein defined at a temperature of less than about 90°C. and at pH values of from 5.5 to 9.0.

CLASS 40E & 56F. 133216.

APPARATUS FOR SEPARATING LIQUID AND VAPOUR.

CITIES SERVICE RESEARCH & DEVELOPMENT COMPANY, OF 60 WALL STREET, NEW YORK, STATE OF NEW YORK, U.S.A.

Application No. 133216 filed October 12, 1971.

11 Claims.

In an up flow reactor vessel, apparatus for effectively separating liquid and vapor, said apparatus comprising a vertical open ended recycle conduit mounted internally within said vessel, a liquid draw off pipe having a downwardly opening inlet mounted in said vessel above said recycle conduit upper end, and means for separating vapour and liquid mounted intermediate said drawoff pipe inlet and said recycle conduit for retaining liquid in said separating means at a level above said liquid drawoff pipe inlet.

CLASS 32E & 40B.

133353.

PROCESS FOR THE POLYMERIZATION OF α -OLEFINS IN THE PRESENCE OF MIXED CATALYST.

FARBWERKE HOECHST AKTIENGESELLSCHAFT
VORMALS MEISTER LUCIUS & BRUNING 45, BRUNINGSTRASSE, FRANKFURT/MAIN, FEDERAL REPUBLIC OF GERMANY.

Application No. 133353 filed October 25, 1971.

5 Claims.

A process for the polymerization of α -olefins of the general formula $\text{CH}_2=\text{CH-R}$, in which R is an aliphatic radical having up to 4 carbon atoms, and of mixtures of these α -olefins with themselves and/or ethylene having an ethylene content of up to 5% by weight, and for the block copolymerization of these α -olefins with or without ethylene having an ethylene content of up to 25% by weight in suspension or in the gaseous phase at temperatures of from 20° to 130°C and pressures of from 0 to 50 atmospheres/gage, which comprises carrying out the polymerization in the presence of a mixed catalyst being composed of:

- a phosphoric acid-N-alkylamide of the formula shown in the accompanying drawing, in which R stands for identical or different aliphatic hydrocarbon radicals having up to 4 carbon atoms, and in which the radicals R may also be linked with each other (component A),
- a cyclopolyalkene having 7 or 8 ring members and 3, or 3 or 4 non-cumulated double bonds, respectively, in the ring, or the alkyl and alkoxy substituted derivatives thereof, the alkyl radical containing from 1 to 4 carbon atoms (component B),
- a halogen compound of trivalent titanium (component C), and
- halogen-free organo-aluminium compound (component D).

CLASS 206E.

133541.

A SEMICONDUCTOR DEVICE AND METHOD FOR MAKING THE SAME.

RCA CORPORATION, OF 30 ROCKEFELLER PLAZA, NEW YORK, NEW YORK, 10020 U.S.A.

Application No. 133541 filed November 9, 1971.

9 Claims.

A semiconductor device comprising:

a semiconductor body having a surface;

a collector region of a first conductivity type in said body;

a base region of a second conductivity type adjacent said collector region with a base-collector PN junction therebetween, a portion of said base region extending to said surface;

a plurality of emitter segments of said first conductivity type extending into said base region from said surface, each said emitter segment forming an emitter-base PN junction with said base region; and

a conductive grid comprising a high temperature intermetallic compound of a semiconductor contacting said base region at said second surface, said grid surrounding each said emitter segment wherein said conductive grid has a melting temperature in excess of 950°C.

CLASS 69E & 107F.

133667.

IGNITION SWITCHES.

JOSEPH LUCAS (INDUSTRIES) LIMITED, OF GREAT KING STREET, BIRMINGHAM, 19, ENGLAND.

Application No. 133667 filed November 18, 1971.

10 Claims.

An ignition switch comprising a casing, a rotor mounted in the casing for rotation within the casing from a stable first

position to a stable second position and from the stable second position to an unstable third position from which the rotor is resiliently urged back to said second position, first and second fixed contacts supported in the casing, a first bridging member rotatable with the rotor and operable to complete an electrical circuit between said first and second fixed contacts in said third position of the rotor, and an arcuate cam track on the inner surface of the casing, said first bridging member being resiliently urged into engagement with said cam track, and the arrangement of said cam track being such that during movement of the rotor from said second position to said third position unless the preceding movement of the rotor was from the first position to the second position said first bridging member is moved by said cam track in a direction such that in said third position said circuit between the first and second fixed contacts is not completed.

CLASS 107G.

133685.

ELECTROMAGNETIC ACTUATING DEVICE FOR A FUEL VALVE FOR AN INTERNAL COMBUSTION ENGINE.

JOSEPH LUCAS (INDUSTRIES) LIMITED, OF GREAT KING STREET, BIRMINGHAM, 19, ENGLAND.

Application No. 133685 filed November 19, 1971.

Convention date November 25, 1970 (56018/70) U.K.

6 Claims.

An actuating device for a fuel valve for an internal combustion engine, comprising first and second electromagnetic actuating means respectively operable to open and close the valve, first and second switches in series with the respective actuating means and respectively operable during starting and stopping of the engine to energise the associated actuating means and a change-over switch, operable by the first actuating means to enable a circuit to the second actuating means to be completed, and also operable by the second actuating means, to enable a circuit to the first actuating means to be completed.

CLASS 136E+F.

134673.

APPARATUS FOR THE PRODUCTION OF TRANSVERSELY PROFILED PLASTICS PIPE.

WILHELM HEGLER, OF 8731 OERLENBACH, WEST GERMANY.

Application No. 134673 filed February 19, 1972.

14 Claims.

Apparatus for the production of transversely profiled plastics pipes, particularly circularly or helically corrugated pipes, comprising recirculating mould halves which combine to form complete longitudinally divided moulds along a straight part of their recirculating path, and constructed so that during the inswing of the separate mould halves into said straight part of their path the trailing ends of the hollow sides of the mould halves travel along circular arcs having a radius of curvature exceeding that of the arcuate path of the leading ends of the hollow sides of the mould halves.

CLASS 195G.

135169

PNEUMATICALLY CONTROLLED DISCHARGE VALVE FOR USE IN INDUSTRY INCLUDING SUGAR INDUSTRY.

THE K. C. P. LIMITED, OF RAMAKRISHNA BUILDING, 38-MOUNT ROAD POST BOX NO. 714 MADRAS-6.

Application No 135169 filed April 4, 1972.

4 Claims.

A pneumatically controlled discharge valve including a self locking pneumatic device where the discharge from a pan or container is to be controlled, comprising a spindle carrying the valve body to control a discharge passage, said spindle being actuated by fluid pressure on a piston mounted on the spindle within a main cylinder and an auxiliary locking cylinder with a piston and a piston rod, said piston rod carrying a cam or the like to lock the spindle in the valve sealing position by the introduction of fluid in the said auxi-

liary locking cylinder, the supply of fluid to the main cylinder and the auxiliary locking cylinder being controlled by control valves, the arrangement being such that when the fluid pressure is acting on the underface of the piston in the main cylinder, it keeps the valve body in sealing position while the introduction of fluid above the piston in the auxiliary cylinder causes said cam or the like to lock the spindle of the main cylinder when the valve body is in sealing position.

CLASS 163B3. 135412.

A ROTARY INTERNAL COMBUSTION ENGINE.

HEMANT PATEL, OF TARU MOTORS, ASHRAM ROAD, NAVRANGPURA, AHMEDABAD-9, STATE OF GUJARAT, INDIA.

Application No. 407/1972 filed June 2, 1972.

Division of application No. 130278 dated February 16, 1971.

6 Claims.

A rotary internal combustion engine comprising a rotor body having three apexes spaced from each other, said rotor body adapted to rotate within a stationary housing of a epitrochoid section, said rotor body having an eccentric, said eccentric mounted on a hollow shaft characterized in a first gear provided in said stationary housing and a second gear held to said rotor body and adapted to be in partial engagement with said first gear, the partial engagement between said gears preventing a displacement of said rotor housing along its orbital path, said first gear being in correspondence with the centre of said shaft, the centre of said second gear being in correspondence with the centre of the rotor body.

CLASS 163B3 135413.

A ROTARY INTERNAL COMBUSTION ENGINE.

HEMANI PATEL, OF TARU MOTORS, ASHRAM ROAD, NAVRANGPURA, AHMEDABAD-9, STATE OF GUJARAT, INDIA.

Application No. 408/72 filed June 2, 1972

Division of Application No. 130278 dated February 16, 1971.

4 Claims.

A rotary internal combustion engine comprising a rotor body adapted to rotate within a stationary housing consisting of two end housings and having therebetween a central housing having the shape of a two arched epitrochoid, said central housing rigidly connected in a sandwiched relation to said end housings characterized in that each of said end housings and central housing is of hollow section, and a plurality of communicating holes are provided in each of said end housings and central housing thereby forming a flow path for a coolant.

CLASS 32D & 40B 135414

PROCESS FOR POLYMERIZATION OF OLEFIN.

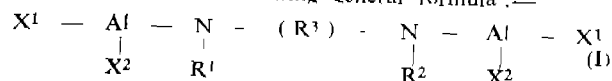
SNAM PROGETTI S.P.A., OF 16 CORSO VENEZIA, MILANO, ITALY.

Application No. 191/Cal73 filed January 27, 1973.

Division of Application No. 130576 dated March 16 1971.

11 Claims—No drawings.

A process for polymerizing an olefin or a mixture of olefins, which comprises effecting the polymerization in the presence of a catalytic system characterised in that the catalytic system comprises a transition metal compound and an aluminium compound having the following general formula:—



wherein each of X^1 and X^2 , which can be the same or different, is a hydrogen atom a halogen atom or a secondary amine radical of formula NHR^1 where R^1 is a hydrocarbon radical,

either each of R^1 and R^2 , which may be the same or different, is a monovalent saturated hydrocarbon radical, or R^1 and R^2 are joined so as to form a ring with a direct nitrogen-nitrogen bond or with a nitrogen-hydrocarbon-nitrogen-hydrocarbon structure and R^3 is a divalent hydrocarbon radical.

CLASS 94G. 135415

PROCESS AND APPARATUS FOR FRAGMENTING SCRAP METAL.

GEORGE & CIE, S.P.R.L., OF RUE GAUCET 2, 4000 LIEGE, BELGIUM.

Application No. 180/1972 filed May 12, 1972.

23 Claims.

Process for fragmenting scrap metal, in particular automobile and household apparatus bodies and industrial by products, comprising subjecting such scrap metals to cooling by contact with a cooling liquid or gas down to a temperature comprised between -60° and -120°C and then breaking up such scrap by compression.

CLASS 146C. 135417

AN AUTOMATIC RAIN GAUGE.

SULTAN SINGH JAIN, SHANTINAGAR, ROORKEE DISTRICT SHARANPUR, UTTAR PRADESH, INDIA.

Application No. 383/1972 filed May 31, 1972

Claim 1

An Automatic Rain Gauge for indicating the rain on a scale (2) marked on a transparent pot (1) and on a dial (17) under a pointer (18) characterised by a funnel (7A) which directly collects the rain water and passes it through a pipe (5) to the transparent-pot (1) which on being filled up upto the maximum height of a syphon (6) passes the rain water to a second funnel (7B) which is mounted on a lever (8) above a third funnel (7C) and on being loaded by the rain water, operates through the lever (8) an escape-wheel (10) which is moved by one tooth by the potential force of the driving-spring (12) through a ratchet-gear (11) for every time of syphoning the rain water finally being collected in the funnel (7C) from where it goes to the out-let pipe.

CLASS 139A. 135418

PLASTICIZER MASTERBATCH COMPOSITION.

CABOT CORPORATION, 125 HIGH STREET, BOSTON, MASSACHUSETTS, U.S.A.

Application No. 1292/Cal/73 filed June 1, 1973.

Division of Application No. 132804 dated September 6, 1971.

5 Claims—No drawings.

A black-pigmented plasticizer masterbatch composition comprising a plasticizer such as herein described and above about 15 weight percent thereof of an oil furnace carbon black having a BET-N₂ surface area of less than about 350m²/gram, a Nigrometer scale value of less than about 81.5, a dispersion rating of greater than about 80 percent and a dibutyl phthalate oil absorption value of between about 40 and about 150 lbs/100 lbs.

OPPOSITION PROCEEDINGS

An opposition has been entered by Harbans Lal Malhotra & Sons Private Limited to the grant of a patent on application No 131194 made by The Gillette Company.

PATENTS SEALED

114874 118666 126290 127033 127082 127182 127197 127229
127450 127491 127579 127591 127593 127653 127666 127667
127760 127841 128551 128690 128791 128935 128984 129192
129484 129562 129598 129611 129647 129650 129756 129779
130017 130302 130781 130794 130815 130920 130985 131064
131146 131212 131320 131412 131839 132008 132056 132170
132725

Amendment proceedings under Section 57

The amendments proposed by Associated Battery Makers of Australia Pty. Limited in respect of Patent application No. 128669 as advertised in Part III, Section 2 of the Gazette of India dated the 21st March 1973 have been allowed.

REGISTRATION OF ASSIGNMENT LICENCES ETC.

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests:—

73180	}	Borgs Fabriks AB.
79815		
118413		
118414		
111986	}	Tor-Isleg Steel Corporation.
112928		
109743	}	Hughes Tool Company (formerly known as Hughes Oil Tool Company).
110360		
113290		

PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

<i>No. & Title of the invention</i>	
108447 (14-12-66)	Process for the recovery of ammonium sulfate from aqueous ammonium sulfate solutions containing organic components.
108452 (14-6-65)	Method of optical brightening organic material.
108463 (13-12-66)	Production of crude oil using stabilized emulsions.
108466 (16-12-66)	A new process for manufacturing sulphuric acid from calcium sulphate.
108467 (16-12-66)	A continuous recycling process for the manufacture of ammonium phosphate from rock phosphate of calcium sulphate.
108472 (16-12-66)	Azo dyestuffs and their metal complex compounds, process for preparing them and process for dyeing textile material therewith.
108480 (20-12-65)	Improvements relating to the production of lubricating oils
108492 (17-12-66)	Process for manufacturing carbon disulphide.
108495 (19-12-66)	Improved process for pelleting carbon black.
108496 (19-12-66)	Improvements in the production of carbon black.
108497 (19-12-66)	A process for the production of catalysts containing molybdenum and/or tungsten.
108504 (17-8-66)	Process for the production of phosphorus containing esters
108508 (19-12-66)	Process for oxidation of para-xylene to terephthalic acid.
108522 (20-12-66)	Production of potassium chloride, potassium sulfate and sodium sulfate from brines and the like containing potassium chloride and sulfate.
108531 (21-12-66)	Improved method for production of carbon black.
108532 (21-12-66)	Process for the preparation of unsaturated nitrile.
108535 (12-8-66)	Anthraquinone dyes their production and use.
108537 (21-12-66)	Improvements in the manufacture of phosphoric acid.
108538 (21-12-66)	Improvements in the manufacture of phosphoric acid.
108539 (21-12-66)	Improved process for the manufacture of glycidol and glycerol.
108541 (21-12-66)	Production of cellulosic pulp.
108545 (21-12-66)	Water-insoluble anthraquinone dyestuffs and processes for their manufacture and polyester fibres coloured therewith.
108567 (23-12-66)	Catalyst and process for the dehydrogenation of paraffin hydrocarbons.
108578 (24-12-66)	A process for the preparation of potassium.
108579 (12-1-66)	Production of new peroxyesters suitable for use as polymerisation catalysts.
108608 (27-12-66)	Process for the preparation of propylene oxide.
108614 (27-12-66)	Epoxy cellular plastics and process for making them.
108628 (28-12-66)	Process for the manufacture of aminoanthraquinone derivatives
108637 (29-12-66)	Process for the continuous xanthating of alkali cellulose.
108644 (27-12-66)	Process for production of olefines by dimerization, co-dimerization, polymerization and copolymerization of olefines.
108684 (2-1-67)	Improvements in or relating to the inhibition of the premature vulcanisation of rubber.
108687 (2-1-67)	Production of high pressure hydrogen-rich gas particularly for ammonia synthesis.
108720 (3-1-67)	Hydriindacenes and process for the manufacture thereof.
108736 (4-1-67)	Catalyst and process for hydrotreating petroleum oils.
108748 (31-8-66)	Process for the preparation of halogen-amino-anthraquinones.
108768 (6-1-67)	Process for the continuous preparation of lactams of cyclic ketoximes.
108770 (7-9-66)	Composition for selective weed control.
108772 (8-8-66)	Process for the production of alkane-sulphonic acids.
108775 (7-1-67)	Catalyst preparation and conversion of hydrocarbons employing such catalyst.
108776 (7-1-67)	Method of preparing, interpolymers of ethylene, interpolymers thus prepared and their use as coating compositions for coating articles.
108785 (10-1-66)	Method of and apparatus for drying granular material.
108786 (10-1-66)	Method of and plant for producing cement clinker.
108787 (9-1-67)	Process for preparing liquid epoxy oligomers.

108805 (10-1-67) Process for the production of monoazo dyestuffs which are difficultly soluble in water.

108813 (6-12-66) Process for the defluorination of waste gypsum.

108826 (11-1-67) Emulsifier combination and process for producing a heat-resistive synthetic rubber latex.

108832 (11-1-67) 4-(Methyl-carbamoyloxy) carbanilates and process for their preparation.

108854 (16-1-67) Process for the treatment of tea.

108872 (16-1-67) Method of producing aluminium fluoride.

108878 (16-1-67) New dioxazine dyestuffs and processes for their manufacture.

Renewal Fees Paid

63835	64908	65041	65276	66426	68368	68503	68690	68749
72300	72656	72732	72859	72901	72942	73006	73014	73024
73069	73185	73233	73244	73385	73402	73415	74178	76035
76160	77843	77860	77861	77915	77940	77950	77956	78128
78169	78191	78195	78206	78266	78568	78609	78610	79156
80087	83333	83423	83567	83575	83632	83644	83646	83686
83736	83766	83810	83904	83905	83906	85009	89067	89182
89298	89329	89346	89353	89354	89358	89359	89360	89365
89401	89407	89460	89509	89548	89561	89609	89610	89631
89632	89886	90738	94534	94644	94684	94796	94849	94992
94999	95000	95007	95023	95036	95052	95077	95092	95094
95109	95111	95125	95158	95187	95225	95286	95305	95314
95372	95382	95508	95574	95742	96053	96395	96535	96594
98889	98919	100568	100636	100637	100918	100976	100978	
101003	101029	101073	101082	101091	101218	101823	102336	
102337	102376	102974	104649	106398	106426	106448	106495	
106540	106544	106557	106560	106576	106604	106618	106657	
106661	106699	106702	106711	106735	106736	106738	106765	
106849	106879	107185	107504	107976	108104	108147	108595	
110153	110325	111414	111571	111660	111661	111699	111701	
111705	111712	111713	111719	111744	111745	111775	111776	
111780	111800	111807	111810	111829	111831	111837	111853	
111855	111856	111873	111886	111891	111905	111941	112000	
112001	112002	112010	112049	112074	112104	112112	112115	
112128	112133	112146	112167	112808	113125	113234	113855	
115619	116509	116753	116911	117027	117047	117060	117085	
117106	117108	117122	117169	117180	117182	117183	117184	
117187	117193	117219	117253	117254	117303	117315	117344	
117345	117351	117353	117364	117384	117398	117399	117428	
117432	117450	117458	117469	117470	117471	117473	117477	
118180	119450	120232	122208	122335	122336	122337	122368	
122392	122446	122447	122449	122508	122509	122511	122512	
122513	122556	122577	122582	122585	122590	122603	122604	
122610	122625	122630	122632	122641	122642	122653	122665	
122666	122680	122685	122686	122690	122721	122722	122729	
122766	122817	122818	122823	122839	122845	122850	122851	
122852	122874	122891	122903	122930	122931	122932	122964	
123001	123631	124018	124019	124182	124455	124474	124755	
125291	126337	126588	126653	126744	126761	127062	127493	
127494	127605	127606	127607	127608	127609	127717	127756	

127800 127801 127802 127805 127843 127844 127879 127912
128004 128034 128324 128429 128430 128445 128682 128774
129425 129629 130121 130616 130873 133362 133363.

Cessation of Patents

111741 111760 111771 111786 111830 111834 111854 111867
111880 111887 111901 111924 111936 111982 111999 112025
112029 112030 112046 112053 112061 112073 112075 112076
112097 112130 112144 112145 112157 112188 112234 112268
112311 112319 112322 112326 112328 112330 112333 112366
112369 112375 112377 112396 112401 112415 112416 112428
112460 112462 112514 112520 112544 112547 112557 112563
112564 112574 11580 112589 112600 112604 112625 112632
112643 112645 112660 112665 112684 112687 112694 112700
112720 112740 112749 112754 112755 112766 112792 112823
112827 112840 112849 112850 112852 112855 112880 112884
112892 112895 115326.

Registration of Designs

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

NIL

Copyright extended for a second period of five years

Design Nos. 133615, 133466, 133695, 133696, 134535 & 134891Class-3.

Design No. 133417..... Class-4.

Cancellation Proceedings (Designs)

Section 51A

(1)

An application has been made by Asrat Ahmed, trading as General Metal Industries for cancellation of the registration of Design No. 139840 in the name of Inder Sain, trading as Aggarwal Metal Works.

(2)

An application has been made by Asrar Ahmed, trading as General Metal Industries for cancellation of the registration of Design No. 139841 in the name of Inder Sain, trading as Aggarwal Metal Works.

S. VEDARAMAN
Controller General of Patents, Designs
and Trade Marks

